

Overview Field Activity Collections System (FACS) Log

Topic	Information
USGS Activity ID i.e. YYPRJ## *	2015-338-FA
Other ID (if any)	XSTORMS.h20151007
Organization(s)/Program	U.S. Geological Survey, St. Petersburg Coastal and Marine Science Center
Project/Theme	Extreme Storm Coastal Change Hazards
Area of Operation	South Carolina/North Carolina border to Montauk Point, New York.
Principal Investigator(s)	K.L.M. Morgan of the USGS in St. Petersburg, Fla.
Information Specialist(s)	None
Activity Type	Oblique Aerial Photography Survey
Scientific Purpose/Goals	Post-Hurricane Joaquin survey to document the storm impact on the coast.
Platform	Cessna 182, N8479S
Starting Date	October 7, 2015
Starting Port/Location	Yorktown, Va.
Ending Date	October 9, 2015
Ending Port/Location	Yorktown, Va.
Equipment Used	Nikon D7100, Garmin GPSMAP 696
Information to be derived (e.g., Grain Size, Depth to Basement)	Baseline coastal oblique photographs
Summary of Activity and Data Gathered	9593 oblique photographs
Notes (include staff, shop time, etc.)	<p>October 7, 2015, Day 1-Departed Newport News, Va. to photograph Cape Charles to Brigantine Inlet. Refueled and rest over night at Manahawkin, NJ. Early high-level cirrus clouds dampened the sun and delayed takeoff 30 min. but yielded excellent aerial photography weather at start point through Brigantine Inlet, N.J. Ceiling and visibility were good. The top weather photo of Virginia eastern shore is representative of weather during 80 percent of our trip.</p> <p>October 8, 2015, Day 2 –Brigantine Inlet to Montauk Point, N.Y. Return to Newport News, Va. Refueled: Brookhaven, N.Y. Excellent aerial photography weather from Brigantine Inlet, NJ to Montauk, N.Y. Ceiling and visibility unlimited until reaching Long Island, N.Y., where we encountered 20 percent cumulous-form coverage above 4500ft - not a factor. The Day 2 weather photo is representative of 70 percent of the time.</p> <p>October 9, 2015, Day 3–Departed Newport News, Va. to photograph N.C./S.C. Line to Cape Henry, Va. Refueling at Columbus County, N.C.; Pit Stop at Beaufort, N.C.; returned to Newport News, Va. Excellent aerial photography weather from Little River Inlet, N.C. until Cape Hatteras, N.C. After that time, heavy turbulence and very strong crosswind, to include wind shear, from the west to Cape Henry, Va., resulting in noticeable crab angle into the wind. Ceiling and visibility unlimited. The Day 3 weather photo is representative of 100 percent of the time.</p> <p>Notes: (from pilot) – Nikon D7100 DSLR Camera Body [crop sensor], ISO: 100 for coastal; Auto Sensitivity Control during profiles, Interval Timer Shooting: One picture every 3 seconds. Nikkor 35 mm 1.8 lens - a standard lens for coastline images. Focus: Infinity. Replicates 50mm lens on our crop sensor DSLR camera body.</p>